

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L29/08 H04L1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L H04B H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

INSPEC, EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>CACERES R ET AL: "Improving the performance of reliable transport protocols in mobile computing environments" IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, JUNE 1995, USA, vol. 13, no. 5, pages 850-857, XP002248963 ISSN: 0733-8716 paragraph [0III] - paragraph [00IV]</p> <p>---</p> <p style="text-align: center;">-/-</p>	1-43

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search 24 July 2003	Date of mailing of the international search report 10.08.2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer FREDRIK BLOMQVIST/MN

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GOFF T ET AL: "Freeze-TCP: a true end-to-end TCP enhancement mechanism for mobile environments" PROCEEDINGS IEEE INFOCOM 2000. CONFERENCE ON COMPUTER COMMUNICATIONS. NINETEENTH ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES (CAT. NO.00CH37064), PROCEEDINGS IEEE INFOCOM 2000. CONFERENCE ON COMPUTER COMMUNICATIONS. NINE, pages 1537-1545 vol.3, XP002248964 2000, Piscataway, NJ, USA, IEEE, USA ISBN: 0-7803-5880-5 paragraph [00II] - paragraph [0III] ---	1-43
A	WO 01 97438 A (NOKIA INC) 20 December 2001 (2001-12-20) page 6, line 14 -page 8, line 28 ---	1-43
A	LIN D ET AL: "TCP fast recovery strategies: analysis and improvements" PROCEEDINGS. IEEE INFOCOM '98, THE CONFERENCE ON COMPUTER COMMUNICATIONS. SEVENTEENTH ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES. GATEWAY TO THE 21ST CENTURY (CAT. NO.98CH36169), PROCEEDINGS IEEE INFOCOM'98 CONFERENCE 0, pages 263-271 vol.1, XP002248965 1998, New York, NY, USA, IEEE, USA ISBN: 0-7803-4383-2 paragraph [0004] - paragraph [0005] ---	1-43
A	MISRA A ET AL: "The window distribution of idealized TCP congestion avoidance with variable packet loss" IEEE INFOCOM '99. CONFERENCE ON COMPUTER COMMUNICATIONS. PROCEEDINGS. EIGHTEENTH ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES. THE FUTURE IS NOW (CAT. NO.99CH36320), PROCEEDINGS OF INFOCOM'99: CONFERENCE ON COMPUTER COMMU, pages 1564-1572 vol.3, XP002248966 1999, Piscataway, NJ, USA, IEEE, USA ISBN: 0-7803-5417-6 abstract ---	1-43
A	EP 0 991 244 A (NORTEL NETWORKS CORP) 5 April 2000 (2000-04-05) paragraph [0012] -----	1-43

INTERNATIONAL SEARCH REPORT

International
PCT/IB 03/01342

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WO 0197438	A 20-12-2001	AU 6987101 A	EP 1295428 A2	WO 0197438 A2	24-12-2001 26-03-2003 20-12-2001
EP 0991244	A 05-04-2000	EP 0991244 A2	JP 2000115232 A	US 6493316 B1	05-04-2000 21-04-2000 10-12-2002